

Amendments to the Claims

The listing of claims will replace all prior versions and listing of claims in the application.

Please cancel claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15.

1-14. (Cancelled).

15. (Cancelled).

Please amend claims 16, 17, and 18 as follows:

16. (Currently Amended) The method according to claim ~~45~~ 18 wherein said first step is a step of radiating ultraviolet rays of a short wavelength of shorter than 200 nm to the oxygen containing gas.

17. (Currently Amended) The method according to claim ~~45~~ 18 wherein said particles of titanium oxide of an orthorhombic crystal system are particles of brookite.

18. (Currently Amended) A method for purifying an oxygen containing gas comprising:
a first step of generating ozone in the oxygen containing gas;

a second step of radiating ultraviolet rays of a medium wavelength of 200 nm or longer, but shorter than 300 nm, to the gas treated in the first step to form active oxygen;

a third step of radiating ultraviolet rays of a wavelength of 300 nm or longer, but shorter than 380 nm, to the gas treated in the second step to convert said active oxygen into an oxygen molecule in a ground state, at least one of said second step or said third step being conducted in the presence of a photocatalyst including at least one of particles of titanium oxide of an orthorhombic crystal system or particles of titanium oxide of an orthorhombic crystal system supporting fine particles of another metal; and

~~The method according to claim 15 wherein the method further comprises a step of irradiating the oxygen containing gas treated in said third step, with rays radiated from an infrared lamp and with rays radiated from a halogen lamp to dry the gas.~~

Please cancel claim 19.

19. (Cancelled).

Please amend claims 20, 21, and 22 as follows:

20. (Currently Amended) The apparatus according to claim 49 22 wherein said device for generating ozone is a device for radiating ultraviolet rays of a wavelength of 100 nm or longer, but shorter than 200 nm.

21. (Currently Amended) The apparatus according to claim 49 22 wherein said particles of titanium oxide of an orthorhombic crystal system are particles of brookite.

22. (Currently Amended) An apparatus for purifying an oxygen containing gas comprising:

a first treating room having means of supplying the oxygen containing gas and a device for generating ozone in the supplied oxygen containing gas;

a second treating room connected to the first treating room and having a device of radiating ultraviolet rays of a medium wavelength of 200 nm or longer, but shorter than 300 nm;

a third treating room connected to the second treating room and having a device of radiating ultraviolet rays of along wavelength of 300 nm or longer, but shorter than 380 nm, said third drying room further having ~~The apparatus according to claim 19 wherein said treating room is further provided with a drying room wherein a portion for irradiating the oxygen containing gas treated in the third treating room, with rays radiated from an infrared lamp and a portion for irradiating the oxygen containing gas treated in the third treating room, with rays radiated from a halogen lamp are installed in order;~~ and

means for discharging the oxygen containing gas treated in the third treating room outside the apparatus, at least a part of wall surfaces of at least one of said second treating room or said third treating room to which the ultraviolet rays are radiated being covered with a photocatalyst including at least one of particles of titanium oxide of an orthorhombic crystal system or particles of titanium oxide of an orthorhombic crystal system supporting particles of another metal.

23. (Previously Presently) The method according to claim 16 wherein said particles of titanium oxide of an orthorhombic crystal system are particles of brookite.